



ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL A. ABRACZINSKAS
Acting Director

DRAFT – June 30, 2017

Mr. Peter Craymer
Chief Financial Officer
Senior Vice President
Bernhardt Furniture Company
1839 Morganton Boulevard
Lenoir, North Carolina 28645

SUBJECT: Air Quality Permit No. 02000T32
Facility ID: 1400007
Bernhardt Furniture Company – Plants 3 & 7
Lenoir, Caldwell County
Fee Class: Title V
PSD Status: Major

Dear Mr. Craymer:

In accordance with your completed Air Quality Permit Application for a Renewal of your Title V permit received August 18, 2016, we are forwarding herewith Air Quality Permit No. 02000T32 to Bernhardt Furniture Company, 1502 (Plant 3) and 1402 (Plant 7) Morganton Blvd., Lenoir, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an “ATTACHMENT.” Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

The minor source baseline dates have not been triggered for any criteria pollutants in Caldwell County (NO_x, PM₁₀ or SO₂). Hence, this renewal does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from August XX, 2017 until July 31, 2022, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Ms. Judy Lee at (919) 707-8729 or judy.lee@ncdenr.gov.

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

c: Asheville Regional Office
Heather Ceron, EPA Region 4
Connie Horne
Central Files

Bernhardt Furniture Company – Plants 3 & 7

ATTACHMENT to Air Quality Permit No. 02000T32 Summary of Changes to Permit

The following changes were made to the Bernhardt Furniture Company – Plants 3 & 7 – Lenoir, Air Permit No. 02000T32:

Page No(s).	Section	Description of Changes
Cover and throughout	Globally	Updated all dates, permit revision numbers and permit language throughout permit.
3 and 4	Equipment Table	Updated column with page numbers per current guidance
7 through 9	2.1-A.4.	Updated 02D .1111 NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters Area Sources, 40 CFR 63, Subpart JJJJJ requirements with most recent guidance from Mr. Joe Voelker, DAQ-RCO
		Added completion dates for MACT 6J requirements
27	2.2-C.	Removed 02Q .0705 because rule repealed
XX through 36	3.0	Updated the General Conditions to the most recent revision
37	Attachment	Updated the list of acronyms



State of North Carolina
Department of Environmental Quality
Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
02000T32	02000T31	August XX, 2017	July 31, 2022

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: **Bernhardt Furniture Company -
Plants 3 & 7**

Facility ID: 1400007
Facility Site Location: 1502 Morganton Blvd. (Plant 3)
1402 Morganton Blvd. (Plant 7)
City, County, State, Zip: Lenoir, Caldwell County, North Carolina 28645

Mailing Address: P.O. Box 740
City, State, Zip: Lenoir, North Carolina 28645

Application Number: 1400007.16B
Complete Application Date: August 18, 2016

Primary SIC Codes: 2511
Division of Air Quality,
Regional Office Address: Asheville Regional Office
2090 US Highway 70
Swannanoa, North Carolina 28778

Permit issued this the XXth day of August, 2017

William D. Willets, P.E., Chief, Air Permitting Section
By Authority of the Environmental Management Commission

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SECTION 1 - PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Page No(s).	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Plant No. 3				
5 - 9	ES-320 GACT JJJJJJ	One firetube design wood fuel-fired boiler (14.3 million Btu per hour maximum heat input rate) with oxygen trim system	CD-320	One multicyclone (10 nine-inch diameter tubes)
5 - 9	ES-321 GACT JJJJJJ	One firetube design wood fuel-fired boiler (14.3 million Btu per hour maximum heat input rate) with oxygen trim system	CD-321	One multicyclone (10 nine-inch diameter tubes)
13 - 14	ES-322	One fly ash separator	CD-322	One HEPA filter
9 - 10	ES-WDSP-3	Plant 3 Woodworking operations	CD-301	One simple cyclone (112 inches in diameter)
			CD-307 CD-311	One transfer cyclone (60 inches in diameter) in series with one bagfilter (4,614 square feet of filter area)
			CD-312 and CD-313	Two bagfilters (4,614 square feet of filter area, each)
			CD-317	One bagfilter (5,767 square feet of filter area)
11 & 15	ES-SBP-3 MACT JJ	One wood furniture component finishing operation consisting of:	NA	NA
		• Seventeen baffle-type spray booths (Nos. 326 through 342)		
		• Nine drying ovens (Nos. 360 through 368)		
		• Three flat-line roll coaters and associated UV curing ovens (Nos. 369, 372, and 373)		
		• One flat-line roll coater (No. 370) and UV curing oven (No. 371)		
		• Gluing operations (No. GLUE-3)		
14	ES-DK-3 MACT DDDD	Plant 3 dry kilns:	NA	NA
		Five dry kilns (approximate capacity of 230-270 million board feet)		
Plant No. 7				
5 - 7	ES-721 GACT JJJJJJ	One firetube design wood fuel-fired boiler (15.4 million Btu per hour maximum heat input rate)	CD-721	One multicyclone (15 nine-inch diameter tubes)
5 - 7	ES-722 GACT JJJJJJ	One firetube design wood fuel-fired boiler (10.0 million Btu per hour maximum heat input rate)	CD-722	One multicyclone (15 nine-inch diameter tubes)

Page No(s).	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
9 - 10	ES-WDSP-7	Plant 7 Woodworking operations	CD-711 CD-703 CD-705 CD-718	One bagfilter (6,924 square feet of filter area) One simple cyclone (104 inches in diameter) One transfer cyclone (96 inches in diameter) in series with one bagfilter (6,924 square feet of filter area)
11 & 15	ES-SBP-7 MACT JJ	One wood furniture component finishing operation consisting of: <ul style="list-style-type: none"> - Seven dry filter-type spray booths (Nos. 725 through 729, 741, and 742) - Eleven baffle-type spray booths (Nos. 730 through 740) - Three halogen drying ovens (Nos. 761 through 763) - Three drying ovens (Nos. 764 through 766) - One wash-off tank (No. 771) - One dip tank (No. 776) - Gluing operations (No. GLUE-7) 	NA	NA

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 - Emission Source(s) and Control Device(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, record keeping, and reporting requirements as specified herein:

- A. One firetube design wood fuel-fired boiler (ID No. ES-320) and associated multicyclone (ID No. CD320)**
One firetube design wood fuel-fired boiler (ID No. ES-321) and associated multicyclone (ID No. CD-321)
One firetube design wood fuel-fired boiler (ID No. ES-721) and associated multicyclone (ID No. CD-721)
One firetube design wood fuel-fired boiler (ID No. ES-722) and associated multicyclone (ID No. CD-722)

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Plant 3 (ID Nos. ES-320 and ES-321) 0.55 pounds per million Btu heat input Plant 7 (ID Nos. ES-721 and ES-722) 0.57 pounds per million Btu heat input	15A NCAC 02D .0504
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	40 percent opacity	15A NCAC 02D .0521
Hazardous Air Pollutants	Less than 10 tons per year any individual HAP Less than 25 tons per year any combination of HAPs	15A NCAC 02Q .0317 (MACT Avoidance)
	National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers	15A NCAC 02D .1111 40 CFR 63, Subpart JJJJJ

1. 15A NCAC 02D .0504: PARTICULATES FROM WOOD BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of wood that are discharged from these sources (**ID Nos. ES-320 and ES-321**) into the atmosphere shall not exceed 0.55 pounds per million Btu heat input. [15A NCAC 2D .0504]
- b. Emissions of particulate matter from the combustion of wood that are discharged from these sources (**ID Nos. ES-721 and ES-722**) into the atmosphere shall not exceed 0.57 pounds per million Btu heat input. [15A NCAC 2D .0504]

Testing [15A NCAC 02Q .0508(f)]

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1-A.1.a. or b., above, as applicable, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504.

Monitoring [15A NCAC 02Q .0508(f)]

- d. Particulate matter emissions from these boilers (**ID Nos. ES-320, ES-321, ES-721, and ES-722**) shall be controlled by the associated multicyclones (**ID Nos. CD-320, CD-321, CD-721, and CD-722**) as described above. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's

inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement must include the following:

- i. A monthly external visual inspection of each system's ductwork and material collection units for leaks; and
- ii. An annual (for each 12-month period from the initial inspection) internal inspection of each multicyclone's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if the multicyclones and ductwork are not properly inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- e. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each inspection;
 - iii. A report of any maintenance performed on the multicyclones; and
 - iv. Any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on the multicyclones.
- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these sources (**ID Nos. ES-320, ES-321, ES-721, and ES-722**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1-A.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping, reporting is required for sulfur dioxide emissions from wood fuel combustion in these sources (**ID Nos. ES-320, ES-321, ES-721, and ES-722**).

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. ES-320, ES-321, ES-721, and ES-722**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521(c)]

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1-A.3.a. (**ID Nos. ES-320, ES-321, ES-721, and ES-722**) above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To assure compliance, once a day the Permittee shall observe the emission points of these sources (**ID Nos. ES-320, ES-321, ES-721, and ES-722**) for any visible emissions above normal while firing wood. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from these sources (**ID Nos. ES-320, ES-321, ES-721, and ES-722**) are observed to be above normal, the Permittee shall either:

- i. Take appropriate action to correct the above-normal emissions within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
- ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1-A.3.a above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emission; and
 - iii. The results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .1111 "MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY"

Applicability [40 CFR 63.11193, 63.11194(a), (b), 63.11200(b), (f)]

- a. For these sources, four wood-fired boilers (**ID Nos. ES-320, ES-321, ES-721 and ES-722**), in the biomass subcategory with an oxygen trim system (**ID No. ES-320 and ES-321 only**), the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart JJJJJ, "National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers", including Subpart A "General Provisions."

Definitions and Nomenclature

- b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.11237 shall apply.

General Provisions [40 CFR 63.11235]

- c. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart JJJJJ.

Compliance Dates

- d. The Permittee shall achieve compliance with the initial tune up and energy assessment requirements no later than March 21, 2014. [40 CFR 63.11196(a)(1), (a)(3), 63.11210(c), 63.11210(j)(1)]
 - i. These requirements have been met for Plant 3 Boilers (**ES-320 and ES-321**):
 - A. Initial tune ups were performed February 19 and 20, 2014; and
 - B. Tune ups were performed on May 21 and 22, 2015 as part of Plant 3 rebuilds.
 - C. Energy assessments were performed on May 16 and August 20, 2013.
 - ii. These requirements for Plant 7 Boilers (**ES-721 and ES-722**) must be performed within 180 days of the later of March 21, 2014 or upon the existing major source commencing operation as an area source.

Notification of Compliance Status [40 CFR 63.11225, 63.11214(c)]

- e. The Permittee shall submit a Notification of Compliance Status no later than July 19, 2014.
 - i. This requirement has been met on September 16, 2013 for Plant 3 Boilers (**ES-320 and ES-321**).
 - ii. For boilers located at existing major sources of HAP that limit their potential to emit (e.g., make a physical change or take a permit limit) such that the existing major source becomes an area source, you must comply with the applicable provisions as specified in paragraphs (i)(1) through (3) of this section.

- A. Any such existing boiler at the existing source must demonstrate compliance with subpart JJJJJ within 180 days of the later of March 21, 2014 or upon the existing major source commencing operation as an area source.
- B. Any new or reconstructed boiler at the existing source must demonstrate compliance with subpart JJJJJ within 180 days of the later of March 21, 2011 or startup.
- C. Notification of such changes must be submitted according to §63.11225(g).

General Compliance Requirements [15A NCAC 02Q .0508(b)]

- f. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.11205(a)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

Performance Tune-up Requirements [15A NCAC 02Q .0508(b)]

- g. The Permittee shall conduct an initial tune-up of boilers (**ID Nos. ES-320 and ES-321**) with an oxygen trim system and subsequent tune-ups every 5 years.
 - i. Each 5-year tune-up shall be conducted no more than 61 months after the previous tune-up.
 - ii. The Permittee shall conduct the tune-ups while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.
 - iii. The tune-ups shall be conducted according to the following procedures:
 - A. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 72 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 72 months from the previous inspection.
 - B. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - C. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 72 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 72 months from the previous inspection.
 - D. Optimize total emissions of carbon monoxide (CO). This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
 - E. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
 - F. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.
 - G. The oxygen level shall be set no lower than the oxygen concentration measured during the most recent tune-up.
- h. The Permittee shall conduct an initial tune-up of boilers (**ID Nos. ES-721 and ES-722**) and subsequent biennial tune-ups **no later than 180 days after the re-start of the affected boilers**.
 - i. A biennial tune-up is also required and shall be conducted no more than 25 months after the previous tune-up.
 - ii. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup.
 - iii. The tune-ups shall be conducted according to the following procedures:
 - A. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but must inspect each burner at least once every 36 months).
 - B. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - C. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.

- D. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available.
- E. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).
- F. Maintain onsite a biennial report containing:
 - 1. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.
 - 2. A description of any corrective actions taken as a part of the tune-up of the boiler.
 - 3. The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.

[40 CFR 63.11201(b), Table 2, 40 CFR 63.11223(a), (b), (c)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

Energy Assessment Requirements [15A NCAC 02Q .0508(b)]

- i. The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor.
 - i. This requirement was met on May 16, 2013 and August 20, 2013 for Plant 3 Boilers (**ES-320 and ES-321**). [40 CFR 63.11214(c)]

Recordkeeping [15A NCAC 02Q .0508(f)]

- j. The Permittee shall maintain the following records:
 - i. As required in 40 CFR 63.10(b)(2)(xiv), the Permittee shall keep a copy of each notification and report that was submitted to comply with this rule and all documentation supporting any Notification of Compliance Status that was submitted.
 - ii. The Permittee shall maintain on-site and submit, if requested by the Administrator, a report containing the following information:
 - A. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
 - B. A description of any corrective actions taken as a part of the tune-up of the boiler.
 - C. The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
 - iii. The Permittee shall keep the following records to document conformance with the applicable requirements:
 - A. Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
 - B. The Permittee shall keep a copy of each boiler energy assessment report.
 - C. For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1), the Permittee shall keep a record which documents how the secondary material meets each of the legitimacy criteria under 40 CFR 241.3(d)(1). If you combust a fuel that has been processed from a discarded non-hazardous secondary material pursuant to 40 CFR 241.3(b)(4), you must keep records as to how the operations that produced the fuel satisfies the definition of processing in 40 CFR 241.2 and each of the legitimacy criteria in 40 CFR 241.3(d)(1). If the fuel received a non-waste determination pursuant to the petition process submitted under 40 CFR 241.3(c), you must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per 40 CFR 241.4, you must keep records documenting that the material is a listed non-waste under 40 CFR 241.4(a).
 - D. Records of the occurrence and duration of each malfunction of the boiler or of the associated air pollution control and monitoring equipment.
 - E. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Section 2.1-A.4.g., including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.11205(a), 63.11214(c), 63.11225(c), 63.11223(b)(6)]

- k. The records must be in a form suitable and readily available for expeditious review. The Permittee shall keep each record for 5 years following the date of each recorded action. The Permittee shall keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. [40 CFR 63.11225(d)]
- l. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Sections 2.1-A.4.j and k are not met.

Reporting [15A NCAC 02Q .0508(f)]

- m. The reporting requirements of 40 CFR 63.11225(b) shall be met by complying with General Condition P of Section 3 of this permit.
- i. Notification of Compliance Status (40 CFR 63.11225(a)(4)) is required no later than 120 days after the applicable compliance date specified in §63.11196 unless you must conduct a performance stack test. If you must conduct a performance stack test, you must submit the Notification of Compliance Status within 60 days of completing the performance stack test.
 - ii. Annual Compliance Report must be prepared by March 1 of each year, and submit upon request, an annual compliance certification report for the previous calendar year containing the information specified in paragraphs (b)(1) through (4) of 40 CFR 63.11225. You must submit the report by March 15 if you had any instance described by paragraph (b)(3) of 40 CFR 63.11225. For boilers that are subject only to the energy assessment requirement and/or a requirement to conduct a biennial or 5-year tune-up according to §63.11223(a) and not subject to emission limits or operating limits, you may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of 40 CFR 63.11225.

**B. Plant 3 Woodworking operations (ID No. ES-WDSP-3) and associated bagfilters (ID Nos. CD-311, CD-312, CD-313, and CD-317) and cyclones (ID Nos. CD-301, and CD-307)
Plant 7 Woodworking operations (ID No. ES-WDSP-7) and associated bagfilters (ID Nos. CD-711 and CD-718) and cyclones (ID Nos. CD-703 and CD-705)**

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 02D .0512
Visible emissions	40 percent opacity	15A NCAC 02D .0521

1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

Monitoring [15A NCAC 02Q .0508(f)]

- b. Particulate matter emissions from ~~the woodworking operations these sources~~ (ID Nos. ES-WDSP-3 and ES-WDSP-7) shall be controlled by six bagfilters (ID Nos. CD-311, CD-312, CD-313, CD-317, CD-711, and CD-718) and four cyclones (ID Nos. CD-301 CD-307, CD-703, and CD-705) as described above. To assure compliance, the Permittee shall perform inspection and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
- i. Monthly external inspection of the ductwork, cyclones, and/or bagfilters noting the structural integrity; and
 - ii. Annual (for each 12-month period following the initial inspection) internal inspection of the bagfilters noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones, and/or bagfilters are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- c. The results of inspection and maintenance for the cyclones and bagfilters shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. The date and time of each recorded action;
 - ii. The results of each inspection; and
 - iii. The results of maintenance performed on any control device.
- The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from ~~the woodworking operations these sources~~ (ID Nos. ES-WDSP-3 and ES-WDSP-7) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521(c)]

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1-B.2.a. (ID Nos. ES-WDSP-3 and ES-WDSP-7) above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To assure compliance, once a week the Permittee shall observe the emission points of these sources (ID Nos. ES-WDSP-3 and ES-WDSP-7) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources (ID Nos. ES-WDSP-3 and ES-WDSP-7) are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1-B.2.a above.
 If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. The results of any corrective actions performed.
 The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

C. Two wood furniture component finishing operations (ID Nos. ES-SBP-3 and ES-SBP-7) consisting of:

Twenty-eight baffle-type spray booths (ID Nos. ES-SBP-3-326 through ES-SBP-3-342 and ES-SBP-7-730 through ES-SBP-7-740);

Seven dry filter-type spray booths (ID Nos. ES-SBP-7-725 through ES-SBP-7-729, ES-SBP-7-741, and ES-SBP-7-742);

Fifteen drying ovens (ID Nos. ES-SBP-3-360 through ES-SBP-3-368, and ES-SBP-7-761 through ES-SBP-7-766);

One dip tank (ID No. ES-SBP-7-776);

One washoff tank (ID No. ES-SBP-7-771);

Three flat-line roll coaters and associated UV curing ovens (ID Nos. ES-SBP-3-369, ES-SBP-3-372, and ES-SBP-3-373);

One flat-line roll coater (ID No. ES-SBP-3-370) and UV curing oven (ID No. ES-SBP-3-371); and

Two gluing operations (ID Nos. ES-SBP-3-GLUE-3 and ES-SBP-7-GLUE-7)

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity (ID Nos. ES-SBP-7-741, ES-SBP-7-742, and ES-SBP-7-725 through ES-SBP-7-729)	15A NCAC 02D .0521
	40 percent opacity (All equipment except ID Nos. ES-SBP-7-741, ES-SBP-7-742, and ES-SBP-7-725 through ES-SBP-7-729)	
Hazardous Air Pollutants	See Section 2.2-A	15A NCAC 02D .1111 [40 CFR Part 63, Subpart JJ]

1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

Monitoring [15A NCAC 02Q .0508(f)]

- b. Particulate matter emissions from ~~the wood furniture finishing operations these sources~~ (ID Nos. ES-SBP-3-326 through ES-SBP-3-342, ES-SBP-7-725 through ES-SBP-7-729, ES-SBP-7-730 through ES-SBP-7-740, ES-SBP-7-741, and ES-SBP-7-742) shall be controlled by ~~dry filters, baffles and~~ adequate ductwork ~~and properly designed collectors (dry filters, baffles)~~. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
 - i. Weekly inspection of the spray booths' dry filters and baffles noting their condition; and
 - iii. Annual (for each 12-month period following the initial inspection) inspection of the associated ductwork noting structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the dry filters, baffles, and ductwork are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- c. The results of inspection and maintenance for ~~the wood furniture finishing operations these sources~~ (ID Nos. ES-SBP-3-326 through ES-SBP-3-342, ES-SBP-7-725 through ES-SBP-7-729, ES-SBP-7-730 through ES-SBP-7-740, ES-SBP-7-741, and ES-SBP-7-742) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each inspection; and
 - iii. The results of maintenance performed on any dry filter, baffle, or ductwork.
 The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- d. The Permittee shall submit the results of any maintenance performed on the dry filters, baffles, or ductwork within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from ~~the wood furniture finishing operations these sources~~ (ID Nos. ES-SBP-3-326 through ES-SBP-3-342 and ES-SBP-7-730 through ES-SBP-7-740) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521(c)]
- b. Visible emissions from ~~the wood furniture finishing operations these sources~~ (ID Nos. ES-SBP-7-741, ES-SBP-7-742 and ES-SBP-7-725 through ES-SBP-7-729) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 02Q .0508(f)]

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1-C.2.a. (ID Nos. ES-SBP-3-326 through ES-SBP-3-342 and ES-SBP-7-730 through ES-SBP-7-740) or b. (ID Nos. ES-SBP-7-741, ES-SBP-7-742 and ES-SBP-7-725 through ES-SBP-7-729) above, as applicable, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- d. To assure compliance, once a month the Permittee shall observe the emission points of these sources (ID Nos. ES-326 through ES-342, ES-SBP-7-725 through ES-SBP-7-729, ES-730 through ES-740, ES-741, and ES-742) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources (ID Nos. ES-326 through ES-342, ES-SBP-7-725 through ES-SBP-7-729, ES-730 through ES-740, ES-741, and ES-742) are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1-C.2.a or b, above, as applicable.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 02Q .0508(f)]

- e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and

- iii. The results of any corrective actions performed.
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit a summary report of the observations postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

D. One fly ash separator (ID No. ES-322) and associated HEPA filter (ID No. CD-322)

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10 \times P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 02D .0515
Visible emissions	40 percent opacity	15A NCAC 02D .0521

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from this source (**ID No. ES-322**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where: } E = \text{allowable emission rate in pounds per hour}$$

P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1-D.1.a, above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring [15A NCAC 02Q .0508(f)]

- c. ~~Particulate matter emissions from this source (**ID No. ES-322**) shall be controlled by a HEPA filter (**ID No. CD-322**) and adequate ductwork. To assure compliance, the Permittee shall perform inspections and maintenance. As a minimum, the inspection and maintenance program shall include:~~

- ~~i. Weekly inspection of the HEPA filter noting the condition; and~~
~~ii. Annual (for each 12-month period from initial inspection) inspection of the associated ductwork noting structural integrity.~~

~~The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the filter and ductwork are not inspected and maintained.~~

Particulate matter emissions from the fly ash separator (**ID No. ES-322**) shall be controlled by the associated HEPA filter (**ID No. CD-322**) and adequate ductwork. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

- ~~i. Weekly inspection of the HEPA filter noting the condition; and~~
i. A monthly visual inspection of the HEPA filter system ductwork and material collection unit for leaks noting condition; and
ii. Annual (for each 12-month period from initial inspection) inspection of the associated ductwork noting structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the filter and ductwork are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of inspection and maintenance for this source (**ID No. ES-322**) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each inspection;
 - iii. The results of any maintenance performed on the filter; and
 - iv. Any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit the results of any maintenance performed on the filter or ductwork within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from this source (**ID No. ES-322**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1-D.2.a. (**ID No. ES-322**) above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of this source (**ID No. ES-322**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source (**ID No. ES-322**) are observed to be above normal, the Permittee shall either:
 - i. Take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. Demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (EPA Method 9) for 12 minutes is below the limit given in Section 2.1-D.2.a above.If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. The results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. The results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked or delivered on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

E. Dry kilns (ID No. ES-DK-3)

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	Plywood and Composite Wood Products MACT No applicable requirements except initial notification	15A NCAC 02D .1111 [40 CFR 63, Subpart DDDD]

2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. Affected Source - All facilities subject to 40 CFR Part 63 Subpart JJ: NATIONAL EMISSIONS STANDARD FOR WOOD FURNITURE MANUFACTURING OPERATIONS¹

One wood furniture component finishing operation (ID No. ES-SBP-3) consisting of:

- seventeen baffle-type spray booths (ID Nos. ES-SBP-3-326 through ES-SBP-3-342)
- nine drying ovens (ID Nos. ES-SBP-3-360 through ES-SBP-3-368)
three flat-line roll coaters and associated UV curing ovens (ID Nos. ES-SBP-3-369, ES-SBP-3-372, and ES-SBP-3-373)
- one flat-line roll coater (ID No. ES-SBP-3-370) and associated UV curing oven (ID No. ES-SBP-3-371)
- one gluing operation (ID No. ES-SBP-3-GLUE-3)

One wood furniture component finishing operation (ID No. ES-SBP-7) consisting of:

- seven dry filter-type spray booths (ID Nos. ES-SBP-7-725 through ES-SBP-7-729, ES-SBP-7-741, and ES-SBP-7-742)
- eleven baffle-type spray booths (ID Nos. ES-SBP-7-730 through ES-SBP-7-740)
- six drying ovens (ID Nos. ES-SBP-7-761 through ES-SBP-7-766)
- one washoff tank (ID No. ES-SBP-7-771)
- one dip tank (ID No. ES-SBP-7-776)
- one gluing operation (ID No. ES-SBP-7-GLUE-7)

APPLICABILITY

1. The wood furniture manufacturing operations (ID Nos. ES-SBP-3 and ES-SBP-7) shall comply with all requirements of 15A NCAC 02D .1111 "Maximum Achievable Control Technology" and 40 CFR Part 63 Subpart JJ "National Emission Standards for Wood Furniture Manufacturing Operations." [40 CFR 63.800]

DEFINITIONS AND NOMENCLATURE [40 CFR 63.801]

2. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.801 shall apply.

REGULATED POLLUTANTS [40 CFR 63.801]

3. Volatile Hazardous Air Pollutant (VHAP) and Volatile Organic Compound (VOC) shall have the meaning as defined in 40 CFR 63.801.

40 CFR Part 63 Subpart A "GENERAL PROVISIONS"

4. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A "General Provisions" according to the applicability of Subpart A to such sources, as identified in Table 1 of 40 CFR Part 63, Subpart JJ.

¹ Spray booths (ID Nos. ES-326 through 342, ES-730 through ES-740, and ES-741 and ES-742), drying ovens (ID Nos. ES-361 through ES-367 and ES-764 through ES-766), flat line roll coater and UV curing oven (ID Nos. ES-369), wash off tank (ES-771), dip tank (ES-776) and gluing operations (ID Nos. ES-GLUE-3 and ES-GLUE7) are considered to be existing sources under 40 CFR Part 63 Subpart JJ. Spray booths (ID Nos. ES-725 through 729), drying ovens (ID Nos. ES-360 and ES-368), halogen drying ovens (ID Nos. ES-761, 762, and 763), flat line roll coater and UV curing oven (ID Nos. ES- 370 and 371), and flat line roll coaters and curing ovens (ID Nos. ES-372 and ES-373) are considered to be new sources under 40 CFR Part 63 Subpart JJ.

SUMMARY OF EMISSION LIMITS

5. The following table provides a summary of emission limits:

Emission Point	Existing Source¹	New Source²
<u>Finishing Operations</u>		
(a) Achieve a weighted average VHAP content across all coatings (Maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied); or	1.0 ^a	0.8 ^a
(b) Use compliant finishing materials (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied):		
-stains	1.0 ^a	1.0 ^a
-washcoats	1.0 ^{ab}	0.8 ^{ab}
-sealers	1.0 ^a	0.8 ^a
-topcoats	1.0 ^a	0.8 ^a
-basecoats	1.0 ^{ab}	0.8 ^{ab}
-enamels	1.0 ^{ab}	0.8 ^{ab}
-thinners (maximum % HAP allowable); or	10.0	10.0
(c) As an alternative, use control device; or	1.0 ^c	0.8 ^c
(d) Use any combination of (a), (b), and (c)	1.0	0.8
<u>Cleaning Operations</u>		
Strippable spray booth material (maximum VOC content, kg VOC/kg solids [lb VOC/lb solids])	0.8	0.8
<u>Contact Adhesives</u>		
(a) Use compliant contact adhesives (maximum kg VHAP/kg solids [lb VHAP/lb solids], as applied) based on following criteria:		
i. For aerosol adhesives, and for contact adhesives applied to nonporous substrates	NA ^d	NA ^d
ii. For foam adhesives use products that meet flammability requirements	1.8	0.2
iii. For all other contact adhesives (including foam adhesives used in products that do not meet flammability requirements); or	1.0	0.2
(b) Use a control device	1.0 ^e	0.2 ^e
<u>Formaldehyde in coatings and contact adhesives</u>		
Percent by weight formaldehyde or 400 pounds formaldehyde emissions per rolling 12-month period	1.0 or 400 lb per 12 months	1.0 or 400 lb per 12 months

^a The limits refer to the VHAP content of the coating, as applied.^b Washcoats, basecoats, and enamels must comply with the limits presented in this table if they are purchased premade, that is, if they are not formulated on-site by thinning other finishing materials. If they are formulated on-site, they must be formulated using compliant finishing materials, i.e., those that meet the limits specified in this table, and thinners containing no more than 3.0 percent HAP by weight.^c The control device must operate at an efficiency that is equivalent to or no greater than 1.0 kilogram/pound for existing sources (or 0.8 kilogram/pound for new sources) of VHAP being emitted from the affected emission source per kilogram/pound solids used.^d There is no limit on the VHAP content of these adhesives.^e The control device must operate at an efficiency that is equivalent to or no greater than 1.0 kilogram/pound for existing sources (or 0.2 kilogram/pound for new sources) of VHAP emitted per kilogram/pound of solids used.

WORK PRACTICE STANDARDS

6. The facility shall adhere to the work practice standards as specified by 40 CFR 63.803.
- a. **Work Practice Implementation Plan** - The Permittee shall prepare, maintain, and follow a written Work Practice Implementation Plan that defines environmentally desirable work practices for each wood furniture manufacturing operation and addresses each of the work practice standards specified in items (b) through (l) below.
 - b. **Operator training** - All personnel involved in finishing, contact adhesive, cleaning, and wash-off operations shall be trained. New personnel shall be trained prior to performing their job duties. Those personnel hired before the compliance date shall be trained within six months of the compliance date. As a minimum, all personnel shall receive annual refresher training.
 - c. **Inspection and maintenance plan** - A written leak inspection and maintenance plan shall be followed. This plan shall specify:
 - i. an inspection schedule for all equipment used to transfer or apply coatings, regulated contact adhesives, or organic HAP solvents. The minimum inspection frequency for each piece of equipment is once per month;
 - ii. methods for documenting the date and results of each inspection and any repairs made; and
 - iii. the time frame between identifying and repairing a leak which adheres to, as a minimum, an attempt at repair within five days of leak detection and final repairs within 15 days of detection unless new equipment must be purchased. If new equipment must be purchased, the leak must be repaired within three months of discovery.
 - d. **Cleaning and wash-off solvent accounting system** - An accounting system shall be maintained to record:
 - i. the quantities and types of organic HAP solvent used per month for cleaning and wash-off operations;
 - ii. the number of pieces washed off, and the reason for the wash-off; and
 - iii. the quantity of spent solvent from each wash-off and cleaning operation and whether it is recycled on-site or disposed off-site.
 - e. **Chemical composition of cleaning and wash-off solvents** - The compounds listed in Table 4 of Subpart JJ shall not be used in wash-off or cleaning operation.
 - f. **Spray booth cleaning** - Spray booths and spray booth components other than conveyors, continuous coaters and their enclosures, and metal filters, shall not be cleaned with solvent containing more than 8 percent by weight VOC unless the spray booth is being refurbished. Refurbish means to replace the spray booth coating or to replace other protective material used to cover the booth. If the spray booth is being refurbished, no more than 1.0 gallon of organic HAP solvent shall be used to prepare the booth prior to applying booth coating. Organic HAP solvents with greater than 8.0 percent VOCs may be used to clean conveyors, continuous coaters and their enclosures, and metal filters.
 - g. **Storage requirements** [63.803(g)] - All affected sources shall use normally closed containers for storing finishing, cleaning, wash-off materials, and contact adhesives.
 - h. **Application equipment requirements** [63.803(h)] - The use of conventional air spray guns to apply finishing materials shall be limited to the following circumstances. **(Note: Effective November 21, 2014 conventional air spray guns are allowed only when emissions are vented to a HAP control device and the following exceptions will no longer apply):**
 - i. to apply finishes that have a VOC content of no greater than 1.0 lb VOC/lb solids, as applied;
 - ii. for touch up and repair under the following circumstances:
 - (A) the touch up and repair occurs after the completion of the finishing operation; or
 - (B) the touch up and repair occurs after the application of stain and before the application of any type of finishing material, and the materials used for touchup and repair are applied from a container that has a volume of no more than 2.0 gallons;
 - iii. when spray is automated, that is, the spray gun is aimed and triggered automatically, not manually;
 - iv. when emissions from the finishing application station are directed to a control device;
 - v. the conventional air spray gun is used to apply finishing materials and the cumulative total usage of that finishing material is no more than 5.0 percent of the total gallons of finishing material used during that semiannual period; or
 - vi. in special circumstances in which the conventional air spray gun is used to apply stain on a part for which it is economically infeasible to use any other spray technology. These special circumstances require approval from the Director and must meet the criteria as defined in 40 CFR 63.803(h).

- i. **Line cleaning** [63.803(i)] - All affected sources shall pump or drain all organic HAP solvent used for line cleaning into normally closed containers.
- j. **Gun cleaning** [63.803(j)] - All affected sources shall collect all organic HAP solvent used to clean spray guns into normally closed containers.
- k. **Wash-off operations** [63.803(k)] - Emissions from wash-off operations shall be controlled by the following:
 - i. the use of normally closed tanks for wash-off; and
 - ii. minimization of dripping by tilting or rotating the part to drain as much solvent as possible.
- l. **Formulation assessment plan** [63.803(l)] - The Permittee shall prepare and maintain with the Work Practice Implementation Plan a formulation assessment plan that includes the following:
 - i. identifies VHAPs from Table 5 of Subpart JJ that are being used in the finishing operations;
 - ii. establishes a baseline level of usage by the affected source for each VHAP identified in Table 5 of Subpart JJ. The baseline usage level shall be the highest annual usage from calendar years 1994, 1995, or 1996. For formaldehyde, the baseline level of usage shall be based on the amount of free formaldehyde present in the finishing material when it is applied. For styrene, the baseline level of usage shall be an estimate of unreacted styrene, which shall be calculated by multiplying the amount of styrene monomer in the finishing material, when it is applied, by a factor of 0.16;
 - iii. tracks the annual usage for each VHAP identified in Table 5 of Subpart JJ;
 - iv. requires that exceedance of the baseline level (as stated in item 2, above) for any VHAP identified in Table 5 of Subpart JJ, after November 1998 be reported in writing to the DAQ. The report shall describe and quantify the increase, and shall explain the reason(s) for the exceedance of the baseline level; and
 - v. if after November 1998 an affected source uses a VHAP of potential concern from Table 6 of Subpart JJ, and a baseline has not been previously established for that VHAP, the baseline will be established as the de minimus level, based on 70 year exposure levels and data in the proposed rulemaking pursuant to Section 112(g) of the CAA, for that pollutant. If the usage of such VHAP exceeds the de minimus level, the reason for exceedance shall be reported to the DAQ.

COMPLIANCE COATINGS

7. Finishing operations (**ID No. ES-326 through ES-342 and ES-725 through ES-742**) are utilizing compliant coatings compliance option.
 - a. **Emission Limits** - The Permittee shall comply with all provisions per 40 CFR 63.802 as applicable to the finishing operations (**ID No. ES-326 through ES-342 and ES-725 through ES-742**). All thinners, stains, washcoats, sealers, topcoats, basecoats, and enamels used at the facility shall meet the emission limitations as stated in the table below:

Regulated material	Emission Limitation
Thinners	10 percent by weight VHAP
Stains, washcoats, sealers, topcoats, basecoats, and enamels	1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied

- b. **Work Practice Standards** - Refer to Section 2.2-A.6 above.
- c. **Compliance Procedures and Monitoring Requirements**
 - i. **Noncontinuous coaters** - The Permittee shall demonstrate that only compliant thinners are used. The Permittee shall demonstrate that all stains, washcoats, sealers, topcoats, basecoats, and enamels are compliant, as applied.
 - (A) The VHAP content of each thinner shall not exceed 10.0 percent by weight;
 - (B) The VHAP content of each stain, sealer, and topcoat shall not exceed 1.0 kg per kg solids, as applied;
 - (C) The VHAP content of each washcoat, basecoat, and enamel not formulated on-site shall not exceed 1.0 kg per kg solids, as applied; and
 - (D) Each washcoat, basecoat, or enamel formulated on-site shall be formulated with a compliant coating [subject to (B) or (C) above] and thinners containing no more than 3.0 percent VHAP by weight.
 - ii. **Continuous Coaters** - The Permittee shall demonstrate that only compliant thinners are used. The Permittee shall demonstrate that all stains, washcoats, sealers, topcoats, basecoats, and enamels are compliant, as applied. Compliance may be demonstrated via one of the following methods:

- (A) using thinners containing no more than 10.0 percent VHAP by weight and compliant coatings (stains, sealers, washcoats, topcoats, basecoats, and enamels no more than 1.0 kg VHAP per kg solids (1.0 lb VHAP per lb of solids)) and maintaining the VHAP content of the coating in the reservoir such that it does not exceed 1.0 kg VHAP per kg solids (1.0 lb VHAP per lb of solids); or
 - (B) **if the continuous coater is used to apply washcoats, basecoats, or enamels**, using thinners containing no more than 3.0 percent by weight VHAP and washcoats, basecoats, or enamels with VHAP contents no more than 1.0 kg VHAP per kg solids (1.0 lb VHAP per lb of solids); or
 - (C) using compliant coatings (stains, sealers, washcoats, topcoats, basecoats, and enamels) with no more than 1.0, compliant thinners (no more than 10 percent by weight VHAP), and monitoring the viscosity (at some standard temperature) of the material in the coating reservoir such that it is never less than the viscosity (at the same standard temperature) of the compliant coating (stains, sealers, washcoats, topcoats, basecoats, and enamels) with less than 1.0 originally added to the reservoir PRIOR to addition of thinner.
- d. **Performance Test Method** - EPA Method 311 (40 CFR Part 63 Appendix A) shall be used in conjunction with formulation data to determine the VHAP content of liquid coatings. Formulation data shall be used to identify VHAP present in the coating. EPA Method 311 shall then be used to quantify those VHAP. If the coating does not release VOC or HAP byproducts during the cure, for example, all VOC and HAP present in the coating is solvent, then batch formulation information shall be accepted.
- e. **Recordkeeping Requirements** - The Permittee shall fulfill all recordkeeping requirements of 40 CFR 63.10, according to the applicability criteria in 40 CFR 63.800(d). In accordance with 40 CFR 63.10(b)(10), all records shall be maintained for a period of five years and, at a minimum, the most recent two years of data shall be retained on-site. The Permittee shall maintain files of all required information (including all reports and notifications) in a form suitable and readily available for expeditious inspection and review. Required recordkeeping includes, but is not limited to, the following:
- i. per 40 CFR 63.10(b)(xiv), the owner or operator shall maintain records of all documentation supporting initial notifications and notifications of compliance status;
 - ii. per 40 CFR 63.806(b), the owner or operator shall maintain:
 - (A) a certified product data sheet for each thinner and each finishing material subject to an emission limit; and
 - (B) records of the VHAP content, in kg VHAP/kg solids (lb VHAP/lb solids), as applied, of each finishing material subject to an emission limit.
 - iii. if the facility is using continuous coaters and the viscosity method of compliance [as specified under Section 2.2 A.7.c.ii.(C) above], the owner or operator shall maintain records of:
 - (A) solvent and coating additions to the continuous coater reservoir;
 - (B) viscosity measurements; and
 - (C) data demonstrating that viscosity is an appropriate parameter for demonstrating compliance; and
 - iv. the owner or operator shall maintain records of all compliance certifications submitted and all other information submitted with compliance certifications and/or compliance status reports.
- f. **Reporting Requirements** - In addition to any other notification requirements to the EPA, the Permittee is required to NOTIFY the Regional Supervisor, DAQ in **writing** of the following:
- i. **Notification of compliance status** - Per 40 CFR 63.807(b), a notification of compliance status shall be submitted no later than 60 days after the compliance date. The report shall include:
 - (A) a statement indicating whether the stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners being used are compliant;
 - (B) **if the facility is using continuous coaters**, a statement indicating whether:
 - (1) compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, and compliant thinners are being used; or
 - (2) compliant coatings, as determined by the VHAP content of the coating in the reservoir, are being used, the viscosity of the coating in the reservoir is being monitored, and compliant thinners are being used. In this case, the report should include data which demonstrates that viscosity is an appropriate parameter for demonstrating compliance.
 - ii. **Continuous compliance demonstrations** - The owner or operator shall submit semiannual reports covering the previous six months of wood furniture manufacturing operations. The first report shall be submitted within 30 calendar days after the end of the first six-month period. The first six-month period shall include the six full calendar months following the initial compliance date's calendar month. Subsequent reports shall be submitted within 30 calendar days after the end of each six-month period following the first six-month period. The reports shall include:

- (A) a compliance certification signed by a responsible official of the company that owns or operates the affected source which states:
- (1) whether the affected source was in compliance; or, if the affected source was not in compliance, the measures taken to bring the affected source into compliance;
 - (2) that all stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners used each day in the semiannual period have been compliant, as applicable, or otherwise identifies the periods of noncompliance and the reason(s) for noncompliance;
 - (3) **if the facility is using continuous coaters**,
 - (a) that compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, have been used; or
 - (b) that compliant coatings and compliant thinners have been used, and that the viscosity of the coating in the reservoir is no less than the viscosity of the initial compliant coating; or
 - (c) otherwise identifies the periods of noncompliance and the reason(s) for noncompliance.

AVERAGING COMPLIANCE OPTION

8. Finishing operations (**ID Nos. ES-326 through ES-342 and ES-725 through ES-742**) are utilizing the averaging option.

- a. **Emission Limits** – The Permittee shall comply with all provisions per 40 CFR 63.802 as applicable to the finishing operations (**ID Nos. ES-326 through ES-342 and ES-725 through ES-742**). The weighted average VHAP content across all coatings, as applied, shall not exceed 1.0 kg VHAP per kg solids (1.0 lb VHAP per lb solids).
- b. **Work Practice Standards** – Refer to Section 2.2 A.6 above.
- c. **Compliance Procedures and Monitoring Requirements** – The Permittee shall demonstrate that the monthly average VHAP content for all finishing materials used at the facility is no greater than 1.0 kg VHAP per kg solids (1.0 lb VHAP per lb of solids), as applied. The average VHAP content (E) shall be calculated by the following equation:

$$E = \frac{(M_{cn}C_{cn} + S_nW_n)}{(M_{cn})}$$

Where: M_c = the mass of solids in a finishing material (c), in kilograms

C_c = the VHAP content of a finishing material (c), in kilograms of volatile hazardous air pollutants per kilogram of coatings solids (kg VHAP/kg solids (lb VHAP/lb solids)), as applied

S = the VHAP content of a solvent, expressed as a weight fraction, added to finishing materials, and

W = the amount of solvent, in kilograms, added to finishing materials during the monthly averaging period.

- d. **Performance Test Method** – EPA Method 311 (40 CFR Part 63, Appendix A) shall be used in conjunction with formulation data to determine the VHAP content of liquid coatings. Formulation data shall be used to identify the VHAP present in the coating. EPA Method 311 shall then be used to quantify those VHAP. If the coating does not release the VOC or VHAP byproducts during the cure, for example, all the VOC and VHAP present in the coating is solvent, then batch formulation information shall be accepted.
- e. **Recordkeeping Requirements** – The Permittee shall fulfill all recordkeeping requirements of 40 CFR 63.10, according to the applicability criteria in 40 CFR 63.800(d). In accordance with 40 CFR 63.10(b)(10), all records shall be maintained for a period of five years and, at a minimum, the most recent two years of data shall be retained on-site. The Permittee shall maintain files of all required information (including all reports and notifications) in a form suitable and readily available for expeditious inspection and review. Required recordkeeping includes, but is not limited to, the following:
 - i. per 40 CFR 63.10(b)(xiv), the owner or operator shall maintain records of all documentation supporting initial notifications and notifications of compliance status;
 - ii. per 40 CFR 63.806(b), the owner or operator shall maintain:
 - (A) a certified product data sheet for each thinner and each finishing material; and
 - (B) records of the VHAP content, in kg VHAP/kg solids (lb VHAP/lb solids), as applied, of each finishing material; and

- iii. the owner or operator shall maintain records of all compliance certifications submitted and all other information submitted with compliance certifications and/or compliance status reports.
- f. **Reporting Requirements** – In addition to any other notification requirements to the EPA, the Permittee is required to notify the Regional Supervisor, DAQ in writing of the following:
 - i. Notification of compliance status – Per 40 CFR 63.807(b), a notification of compliance status shall be submitted no later than 60 days after the compliance date. The report shall include the results of the averaging calculation (Equation 1) for the entire first six-month period. The first six-month period shall include the six full calendar months following the initial compliance date's calendar month. Subsequent reports shall be submitted within 30 calendar days after the end of each six-month period following the first six-month period. The report shall include:
 - (A) the results of the averaging calculations (Equation 1) for each month in the six month period; and
 - (B) a compliance certification signed by a responsible official of the company that owns or operates the affected source which states:
 - (1) whether the affected source was in compliance; or, if the affected source was not in compliance, the measures taken to bring the affected source into compliance; and
 - (2) that the value of E, as calculated using Equation 1, was less than 1.0 for each month during the reporting period, or should otherwise identify those months during which the value of E exceeded 1.0.

CONTACT ADHESIVES

9. Contact Adhesive Operations (**ID Nos. GLUE-3 and GLUE-7**)

- a. **Emission Limits** - The Permittee shall comply with all provisions per 40 CFR 63.802 as applicable to the contact adhesive operations (**ID No. GLUE-3 and GLUE-7**). All **nonaerosol** contact adhesives applied to porous surfaces shall meet the emission limits as stated in the table below:

Regulated material	Emission Limitation
40 CFR 63.802(a)(2) nonaerosol Contact adhesives used in products which meet flammability requirements per California Technical Bulletin 116, 117, or 133, the Business and Institutional Furniture Manufacturers Association's (BIFMA's) X5.7, UFAC flammability testing, or any similar requirements from Local, State, or Federal fire regulatory agencies.	1.8 kg VHAP per kg solids (1.8 lb VHAP per lb solids), as applied
40 CFR 63.802(a)(2) All other nonaerosol contact adhesives	1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied

- b. **Work Practice Standards** - Refer to Section 2.2 A.6 above.
- c. **Compliance Procedures and Monitoring Requirements**
 - i. The Permittee shall demonstrate that only compliant contact adhesives are used. The Permittee shall demonstrate that all **nonaerosol** contact adhesives applied to porous surfaces are compliant, as applied:
 - (A) the VHAP content of each contact adhesive which meets flammability requirements shall not exceed 1.8 lb per lb (or kg VHAP/kg) solids, as applied; and
 - (B) the VHAP content of each contact adhesive which does not meet flammability requirements shall not exceed 1.0 lb VHAP/lb (or kg VHAP/kg) solids, as applied.
- d. **Performance Test Method** - EPA Method 311 (40 CFR Part 63 Appendix A) shall be used in conjunction with formulation data to determine the VHAP content of liquid coatings. Formulation data shall be used to identify the VHAP present in the coating. EPA Method 311 shall then be used to quantify those VHAP. If the coating does not release the VOC or HAP byproducts during the cure, for example, all the VOC and HAP present in the coating is solvent, then batch formulation information shall be accepted.

- e. **Recordkeeping Requirements** - The Permittee shall fulfill all recordkeeping requirements of 40 CFR 63.10, according to the applicability criteria in 40 CFR 63.800(d). In accordance with 40 CFR 63.10(b)(10), all records shall be maintained for a period of five years and, at a minimum, the most recent two years of data shall be retained on-site. The Permittee shall maintain files of all required information (including all reports and notifications) in a form suitable and readily available for expeditious inspection and review. Required recordkeeping includes, but is not limited to, the following:
- per 40 CFR 63.10(b)(xiv), the owner or operator shall maintain records of all documentation supporting initial notifications and notifications of compliance status;
 - per 40 CFR 63.806(b), the owner or operator shall maintain:
 - a certified product data sheet for each contact adhesive subject to an emission limit; and
 - records of the VHAP content, in kg VHAP/kg solids (lb VHAP/lb solids), as applied, of each contact adhesive subject to an emission limit; and
 - the owner or operator shall maintain records of all compliance certifications submitted and all other information submitted with compliance certifications and/or compliance status reports.
- f. **Reporting Requirements** - In addition to any other notification requirements to the EPA, the Permittee is required to NOTIFY the Regional Supervisor, DAQ in **writing** of the following:
- Notification of compliance status** - Per 40 CFR 63.807(b), a notification of compliance status shall be submitted no later than 60 days after the compliance date. The report shall include a statement indicating whether contact adhesives are being used and whether the contact adhesives used are **compliant** contact adhesives. The statement should indicate that **compliant** contact adhesives are being used for all **nonaerosol** contact adhesive applications unless the contact adhesives are being used solely on nonporous substrates.
 - Continuous compliance demonstrations** - The Permittee shall submit semiannual reports covering the previous six months of wood furniture manufacturing operations. The first report shall be submitted within 30 calendar days after the end of the first six-month period. The first six-month period shall include the six full calendar months following the initial compliance date's calendar month. Subsequent reports shall be submitted within 30 calendar days after the end of each six-month period following the first six-month period. The reports shall include a compliance certification signed by a responsible official of the company that owns or operates the affected source which states:
 - that compliant contact adhesives have been used each day in the semiannual period, or should otherwise identify each day noncompliant contact adhesives were used; or
 - otherwise identifies the periods of noncompliance and the reason(s) for noncompliance.

STRIPPABLE SPRAY BOOTHS

10. Strippable spray booth coating applications (**ID No. ES-SBP-3-326 through ES-SBP-3-342 and ES-SBP-7-725 through ES-SBP-7-742**)

- a. **Emission Limits** - The Permittee shall comply with all provisions per 40 CFR 63.802 as applicable to strippable spray booth coatings (**ID No. ES-SBP-3-326 through ES-SBP-3-342 and ES-SBP-7-725 through ES-SBP-7-742**). All strippable spray booth coatings shall meet the emission limit as stated in the table below:

Regulated material	Emission Limitation
Strippable spray booth coatings	0.8 kg VOC per kg solids, as applied

- b. **Work Practice Standards** - Refer to Section 2.2 A.6 above.
- c. **Compliance Procedures and Monitoring Requirements**
The VOC content of each strippable spray booth coating shall not exceed 0.8 kg per kg solids, as applied.
- d. **Performance Test Method** - EPA Method 24 (40 CFR Part 63 Appendix A) shall be used in conjunction with formulation data to determine the VOC content of liquid coatings. If the coating does not release the VOC byproducts during the cure, for example, all the VOC present in the coating is solvent, then batch formulation information shall be accepted.
- e. **Recordkeeping Requirements** - The Permittee shall fulfill all recordkeeping requirements of 40 CFR 63.10, according to the applicability criteria in 40 CFR 63.800(d). In accordance with 40 CFR 63.10(b)(10), all records shall be maintained for a period of five years and, at a minimum, the most recent two years of data shall be retained on-site. The Permittee shall maintain files of all required information (including all reports and

notifications) in a form suitable and readily available for expeditious inspection and review. Required recordkeeping includes, but is not limited to, the following:

- i. per 40 CFR 63.10(b)(xiv), the owner or operator shall maintain records of all documentation supporting initial notifications and notifications of compliance status;
 - ii. per 40 CFR 63.806(b), the owner or operator shall maintain:
 - (A) a certified product data sheet for each strippable spray booth coating; and
 - (B) records of the VOC content, in kg VOC/kg solids (lb VOC/lb solids), as applied, of each strippable spray booth material; and
 - iii. the Permittee shall maintain records of all compliance certifications submitted and all other information submitted with compliance certifications and/or compliance status reports.
- f. **Reporting Requirements** - In addition to any other notification requirements to the EPA, the Permittee is required to NOTIFY the Regional Supervisor, DAQ in **writing** of the following:
- i. **Notification of compliance status** - Per 40 CFR 63.807(b), a notification of compliance status shall be submitted no later than 60 days after the compliance date. The report shall include a statement indicating whether compliant strippable spray booth coatings are being used.
 - ii. **Continuous compliance demonstrations** - The Permittee shall submit semiannual reports covering the previous six months of wood furniture manufacturing operations. The first report shall be submitted within 30 calendar days after the end of the first six-month period. The first six-month period shall include the six full calendar months following the initial compliance date's calendar month. Subsequent reports shall be submitted within 30 calendar days after the end of each six-month period following the first six-month period. The report shall include a compliance certification signed by a responsible official of the company that owns or operates the affected source which states that compliant strippable spray booth coatings have been used each day in the semiannual period, or should otherwise identify each day noncompliant materials were used.

FORMALDEHYDE REQUIREMENTS

11. The Permittee shall comply with one of the following two options: ~~by November 21, 2014 and thereafter.~~

a. **Option #1 (400 lb formaldehyde limit per rolling 12 month period) –**

- i. **Emissions Limits** – In accordance with 40 CFR 63.802(a) and (b), limit total formaldehyde (F_{total}) use in coatings and contact adhesives to no more than 400 pounds per rolling 12 month period.
- ii. **Compliance Procedures and Monitoring Requirements** – In accordance with 40 CFR 63.804(h), calculate total formaldehyde emissions from all finishing materials and contact adhesives used at the facility using Equation 5 and maintain a value of F_{total} no more than 400 pounds per rolling 12 month period.
- iii. **Recordkeeping Requirements** – In accordance with 40 CFR 63.806(b), the Permittee shall keep records of the formaldehyde content, in lb/gal, as applied, of each finishing material and contact adhesive subject to the emission limits of 40 CFR 63.802(a) and (b).
- iv. **Reporting Requirements** - The Permittee shall submit semi-annual reports to the Regional Supervisor in accordance with 40 CFR 63.807(c).

b. **Option#2 (CPDS \leq 1.0% by weight formaldehyde) –**

- i. **Emissions Limits** – In accordance with 40 CFR 63.802(a) and (b), use coatings and contact adhesives only if they are low-formaldehyde coatings and adhesives, in any wood furniture manufacturing operations. *Low-formaldehyde* means, in the context of a coating or contact adhesive, a product concentration of less than or equal to 1.0 percent formaldehyde by weight, as described in a certified product data sheet for the material.

- ii. **Compliance Procedures and Monitoring Requirements** – In accordance with 40 CFR 63.804(h), demonstrate compliance by use of coatings and contact adhesives only if they are *low-formaldehyde* coatings and contact adhesives maintaining a certified product data sheet for each coating and contact adhesive used and submitting a compliance certification with the semi-annual report.
- iii. **Recordkeeping Requirements** – In accordance with 40 CFR 63.806(b), the Permittee shall keep a certified product data sheet for each coating and contact adhesive used.
- iv. **Reporting Requirements** - The Permittee shall submit semi-annual reports to the Regional Supervisor in accordance with 40 CFR 40 CFR 63.807(c) and 40 CFR 63.804(h). The compliance certification shall state that low-formaldehyde coatings and contact adhesives, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a coating or contact adhesive that is not low-formaldehyde, as demonstrated by records or by a sample of the coating or contact adhesive, is used. Use of a noncompliant coating or contact adhesive is a separate violation for each day the noncompliant coating or contact adhesive is used. The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

State-enforceable only

B. Facility-wide affected sources

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odorous emissions	State-enforceable only Odorous emissions must be controlled	15A NCAC 02D .1806

1. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

- a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

State-enforceable only

~~C. Facility-wide affected sources~~

~~1. 15A NCAC 2Q .0705: EXISTING FACILITIES AND SIC CALLS~~

- ~~a. **Air Permit Application Submittal Requirements** – In accordance with 15A NCAC 2Q .0705(b), the Permittee is required to submit an air quality permit application demonstrating compliance with 15A NCAC 2D .1100 “Control of Toxic Air Pollutants” as follows:~~
 - ~~i. At the same time the Permittee submits an air quality permit application to comply with the MACT standard promulgated by DAQ for combustion sources; or~~
 - ~~ii. Within six months of promulgation of the MACT standard by DAQ for combustion sources, if an air quality permit application is not required to comply with that MACT.~~
- ~~b. The permit application demonstrating compliance with 15A NCAC 2D .1100 submitted pursuant to Section 2.2 C.1.a, above, shall include an evaluation for all toxic air pollutants covered under rule 15A NCAC 2D .1104 for all sources at the facility, excluding those sources exempt from such evaluation under 15A NCAC 2Q .0702 and North Carolina Session Law 2012-91.~~
- ~~c. **Compliance Deadline Date Requirement** – The facility shall be in compliance with the 15A NCAC 2D .1100 Toxic Air Pollutants rule by **May 26, 2013**, which is date that the Permittee is required to be in compliance with the MACT standard promulgated by DAQ for combustion sources.~~

C. Facility-wide affected sources

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous Air Pollutants	Less than 10 tons per year any individual HAP Less than 25 tons per year any combination of HAPs	15A NCAC 02Q .0317 (MACT Avoidance)

**1. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS
LIMITATION TO AVOID BEING MAJOR FOR HAZARDOUS AIR POLLUTANTS
for 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

- a. To comply with this Permit and to avoid applicability to 15A NCAC 02D .1111, Maximum Achievable Control Technology, as requested by the Permittee, facility wide emissions shall be less than 10 tons per consecutive 12-month period for any single hazardous air pollutants and less than 25 tons per consecutive 12-month period for all hazardous air pollutants.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- b. Calculation of facility wide HAP emissions shall be made each month. HAP emissions shall be determined by multiplying the total amount of each type of HAP containing material consumed or used during the month by the HAP content of the coating material. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the HAP containing materials are not monitored or recorded.
- c. Calculations on the individual HAP amounts and total HAP amount shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if HAP emissions exceed the limits in Section 2.2-D.1.a above.
- d. The Permittee must keep records demonstrating that HAP emissions are less than 10 tons for any single HAP or 25 tons for total of all HAPs on site at the source for a period of five years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The records must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the Permittee believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the DAQ to make a finding about the source's applicability status with regard to the relevant standard or other requirement.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a semi-annual summary report of HAP emissions postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 for each calendar year for the preceding six-month period between January and June. The report shall contain the following:
- the monthly individual HAP and total HAP emissions for the previous 17 months, and
 - the six 12-consecutive month totals of individual HAP and total HAP emissions for each of the months of the reporting period.

SECTION 3 - GENERAL CONDITIONS (Version 4.0 12/17/15)

This section describes terms and conditions applicable to this Title V facility.

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. Circumvention - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. Permit Modifications

1. Administrative Permit Amendments [15A NCAC 02Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. Changes Not Requiring Permit Modifications

1. Reporting Requirements
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application;
 - b. changes that modify equipment or processes; or
 - c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
 - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
 - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A. Reporting Requirements for Excess Emissions and Permit Deviations [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

“**Excess Emissions**” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.*)

“**Deviations**” - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B. Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. Emergency Provisions [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall

comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. Certification by Responsible Official [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. Permit Shield for Applicable Requirements [15A NCAC 02Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. Termination, Modification, and Revocation of the Permit [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. Insignificant Activities [15A NCAC 02Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. Property Rights [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. Inspection and Entry [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(4)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(e)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1) – FEDERALLY-ENFORCEABLE ONLY**

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. Title IV Allowances [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. Air Pollution Emergency Episode [15A NCAC 02D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. Registration of Air Pollution Sources [15A NCAC 02D .0202]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. Ambient Air Quality Standards [15A NCAC 02D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. General Emissions Testing and Reporting Requirements [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
 - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. Specific Permit Modifications [15A NCAC 02Q.0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. **Third Party Participation and EPA Review** [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound